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| Fidonet HAM/PACKET Digest - For up to date HAM/PACKET info |
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Volume 1, Number 7

December 10, 1989

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E D I T O R I A L S

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Hello everyone, this is issue number 7 of the Fidonet Ham/Package Digest and the second issue compiled this month. There has been a slight increase in material being sent to me for publication. My heartfelt thanks goes out to those of you that have contributed.

Some of you may know that I am a scout leader, and something that I would like for you hams to do is to contact your local office of the Boy Scouts of America and volunteer to become a Radio merit badge counselor. They have finally published a new Radio merit badge guide, and this has been the first update since the mid 60's. A lot of effort and work has gone into the publication.

73 de Brian Murrey - Editor KB9BVN

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B U L L E T I N S

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ARRL BULLETIN 80
ARLB080 FROM ARRL HEADQUARTERS
NEWINGTON CT
OCTOBER 24, 1989

TO ALL RADIO AMATEURS

ATTENTION CONTESTERS. MANY AMATEURS HAVE BEEN CONFUSED BY PART 97.119, PARAGRAPH A, OF THE NEW PART 97 RULES CONCERNING STATION IDENTIFICATION. THE QUESTION ARISES WHEN OPERATING AT THE LOCATION OF ANOTHER STATION. THE FCC HAS INDICATED TWO ACCEPTABLE PROCEDURES.

FIRST, ANOTHER AMATEUR MAY BE DESIGNATED CONTROL OPERATOR OF YOUR STATION. THAT AMATEUR WOULD IDENTIFY WITH YOUR STATION CALL SIGN AND OPERATE WITHIN THE PRIVILEGES OF YOUR LICENSE.

SECOND, YOU MAY LOAN YOUR STATION TO ANOTHER AMATEUR. THE EQUIPMENT BECOMES THAT AMATEUR'S TEMPORARY STATION. THE AMATEUR IS THEN THE LICENSEE, SIGNS WITH HIS CALL AND OPERATES WITHIN THE PRIVILEGES OF HIS LICENSE CLASS. FOR EXAMPLE, IN A CONTEST AN AMATEUR OPERATING FROM SOMEONE ELSE'S STATION MAY SIGN HIS OWN CALL SIGN.

=====

QST DE W1AW
ARRL BULLETIN 77 ARLB077
FROM ARRL HEADQUARTERS
NEWINGTON CT OCTOBER 20, 1989

TO ALL RADIO AMATEURS

ACTIONING ON BEHALF OF THE NATIONAL COMMUNICATIONS SYSTEM, THE DEPARTMENT OF JUSTICE HAS FILED A PETITION IN THE US COURT OF APPEALS FOR THE DC CIRCUIT REQUESTING THAT THE COURT REVIEW THE FCC ACTION IN DOCKET 87-14 DENYING RECONSIDERATION OF THE 220 MHZ ALLOCATIONS DECISION. THE PETITION SEEKS REVIEW ON THE GROUNDS THAT THE FCC ACTION WAS ARBITRARY, CAPRICIOUS, AND AN ABUSE OF DISCRETION, AND REQUESTS THAT THE ACTION BE SET ASIDE AND THE MATTER REMANDED TO THE FCC. THE CASE, UNITED STATES OF AMERICA VS FEDERAL COMMUNICATIONS COMMISSION, HAS BEEN ASSIGNED CASE NUMBER 89-1635 BY THE CLERK OF THE COURT. A SIMILAR PETITION FOR REVIEW FILED EARLIER BY ARRL WAS DESIGNATED NUMBER 89-1602.

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QST DE W1AW

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ARRL BULLETIN 78 ARLB078
FROM ARRL HEADQUARTERS
NEWINGTON CT OCTOBER 20, 1989

TO ALL ADIO AMATEURS

WITH THE CHANGE TO STANDARD TIME ON OCTOBER 29, ALL SCHEDULED
W1AW CODE PRACTICE AND BULLETIN TRANSMISSIONS WILL BE ONE HOUR
LATER IN UTC. IF YOU HAVE BEEN ON DAYLIGHT TIME, THE LOCAL
TIMES WILL REMAIN THE SAME. IF YOU HAVE NOT BEEN ON DAYLIGHT
TIME, TUNE IN ONE HOUR LATER. FOR EXAMPLE, THE 1300 UTC, 9 AM
EDST COE PRACTICE WILL BECOME 1400 UTC, 9 AM EST. THE COMPLETE
W1AW SCHEDULE APPEARS IN NOVEMBER QST.

=====

QST DE W1AW
ARRL BULLETIN 83 ARLB083
FROM ARRL HEADQUARTERS
NEWINGTON CT NOVEMBER 8, 1989

TO ALL RADIO AMATEURS

THE OPERATION OF AMATEUR SATELLITE JAS-1/FUJI-OSCAR 12 WAS
TERMINATED, EFFECTIVE NOVEMBER 5, BECAUSE OF LOW POWER
GENERATION.

JARL REPORTS QUOTE, IT IS OUR GREAT PLEASURE TO REALIZE THAT WE
WERE ABLE TO PROVIDE CHANCES OF SATELLITE COMMUNICATION,
ESPECIALLY THE FLYING BBS, AND, TAKING THIS OPPORTUNITY, WE
THANK ALL SATELLITE ENTHUSIASTS FOR HAVING CONTACTED THE BIRD.
NOW, WE ARE PREPARIUNG THE NEXT BIRD, JAS-1B, AS THE SUCCESSOR
OF FO-12, WHICH HAS THE SAME MISSION CONFIGURATION AS THAT OF
FO-12 EXCEPT FOR ITS ORBIT. PLEASE LOOK FORWARD TO ITS LAUNCH
IN FEBRUARY 1990. UNQUOTE.

=====

QST DE W1AW
ARRL BULLETIN 84 ARLB084
FROM ARRL HEADQUARTERS

NEWINGTON CT NOVEMBER 20, 1989
TO ALL RADIO AMATEURS

THE ARRL COMMITTEE OF TELLERS MET ON NOVEMBER 20 TO COUNT
BALLOTS IN ELECTIONS JUST CONCLUDED FOR ARRL DIVISION DIRECTORS
AND VICE DIRECTORS. THE NUMBER OF VOTES CREDITED TO EACH
CANDIDATE IS AS FOLLOWS, AND THE FIRST LISTED CANDIDATE IN EACH
ELECTION IS DECLARED ELECTED.

ATLANTIC DIVISION

FOR DIRECTOR

HUGH A. TURNBULL, W3ABC, 4398
ROBERT B. WEINSTOCK, KN1K, 1578

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FOR VICE DIRECTOR

KAY C. CRAIGIE, KC3LM, 3244
JAMES M. MOZLEY, W2BCH, 2724

DAKOTA DIVISION

FOR DIRECTOR

HOWARD B. MARK, W00ZC, 609
GEORGE E. FREDERICKSON, KC0T, 2539
RICHARD P. CLEM, W0IS, 163

DELTA DIVISION

FOR DIRECTOR

JOEL M. HARRISON, WB5IGF, 1770
ARTHUR P. KAY, W5APX, 741

FOR VICE DIRECTOR

HENRY R. LEGGETTE, WD4Q, 876
JAMES A. AMUNDSEN, W5TRD, 825
JOHN M. WONDERGEM, K5KR, 813

GREAT LAKES DIVISION

FOR DIRECTOR

ALLAN L. SEVERSON, AB8P, 2804
LEONARD M. NATHANSON W8RC, 2132

MIDWEST DIVISION

FOR DIRECTOR

PAUL GRAUER, W0FIR, 1639
ROBERT S. MCCAFFREY, K0CY, 742

FOR VICE DIRECTOR

LYNDELL C. MILLER, WA0KUH, 1187
LAURANCE S. STAPLES, W0AIB, 1180

SOUTHEASTERN DIVISION

FOR VICE DIRECTOR

EVELYN D. GAUZENS, W4WYR, 2809
ALAN H. PAGE, KE4W0, 1174

THERE WAS NO CANDIDATE FOR VICE DIRECTOR IN THE DAKOTA DIVISION.

THE NEW DIRECTORS AND VICE DIRECTORS WILL TAKE OFFICE JANUARY 1,
1990, OR TWO YEAR TERMS.

THE FOLLOWING CANDIDATES WERE UNOPPOSED AND WERE PREVIOUSLY
DECLARED ELECTED, ALSO FOR TWO YEAR TERMS BEGINNING JANUARY 1,
PACIFIC DIVISION DIRECTOR RODNEY J. STAFFORD, KB6ZV
SOUTHEASTERN DIVISION DIRECTOR FRANK M. BUTLER, W4RH
GREAT LAKES DIVISION VICE DIRECTOR GEORGE E. RACE, WB8BGY

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PACIFIC DIVISION VICE DIRECTOR CHARLEE P. MCCONNELL, W6DPD
COMPLETE DETAILS WILL APPEAR IN JANUARY QST.

=====

QST DE W1AW
ARRL BULLETIN 85 ARLB085
FROM ARRL HEADQUARTERS
NEWINGTON CT NOVEMBER 21, 1989

TO ALL RADIO AMATEURS

AMATEUR LICENSE FEES HAVE BEEN DELETED FROM THE BUDGET
RECONCILIATION LEGISLATION NOW UNDER CONSIDERATION IN CONGRESS.
THE CONFERENCE COMMITTEE REPORT, RELEASED TODAY, STATES THAT THE
CONFEREES RECOGNIZE THAT AMATEUR LICENSEES DO NOT OPERATE FOR
PROFIT AND CAN PLAY AN IMPORTANT PUBLIC SAFETY ROLE IN TIME OF

DISASTER OR EMERGENCY. THERE IS LITTLE CHANCE OF THE FEES BEING
REINTRODUCED ON THE FLOOR OF EITHER HOUSE OF CONGRESS AS THE
LEGISLATION GOES FORWARD FROM HERE. ARRL CONGRATULATES ALL
THOSE WHO JOINED US IN THIS EFFORT.

=====

QST DE W1AW
ARRL BULLETIN 86 ARLB086
FROM ARRL HEADQUARTERS
NEWINGTON CT NOVEMBER 21, 1989

TO ALL RADIO AMATEURS

SECTION MANAGER ELECTION RESULTS. THE FOLLOWING AMATEURS HAVE
BEEN DECLARED ELECTED TO TERM OF OFFICE BEGINING JANUARY 1,
1990.

ALABAMA SECTION - MILDRED CULLEN, AA4XF

MICHIGAN SECTION - GEORGE RACE, WB8BGY

NEW MEXICO SECTION - JOE KNIGHT, W5PDY

TENNESSEE SECTION - HARRY SIMPSON, W4MI

EAST BAY SECTION - BOB VALLIO, W6RGG

SANTA BARBARA SECTION - THMMAS GEIGEY, W2KVA

KANSAS SECTION - ROBERT SUMMERS, K0BXF

WESTERN MASSACHUSETTS SECTION - JEAN HURTLE, KA1IFC

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QST DE W1AW
ARRL BULLETIN 87 ARLB087

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FROM ARRL HEADQUARTERS
NEWINGTON CT DECEMBER 2, 1989

TO ALL RADIO AMATEURS

US1UGB IS A SPECIAL CALL SIGN TO COMMEMORATE THE US/SOVIET
SUMMIT MEETING IN MALTA. THE STATION IS LOCATED IN MOSCOW. THE
CALL SIGN SIGNIFIES UNITED STATES, SOVIET, GORBACHEV, BUSH. QSL
DIRCT TO UK3A.

=====

QST DE W1AW
ARRL Bulletin 87 ARLB087
From ARRL Headquarters
Newington CT December 2, 1989
To all radio amateurs

US1GB is a special call sign to commemorate the US/Soviet summit
meeting in Malta. The station is located in Moscow. The call
sign signifies United States, Soviet, Gorbachev, Bush. QSL
direct to UK3A.

=====

QST DE W1AW
ARRL Bulletin 88 ARLB088
From ARRL Headquarters
Newington CT December 4, 1989
To All Radio Amateurs

On November 28, FCC released PR Docket 89 552, it's proposal to
establish service rules for the use of the 220 to 222 MHz band
by private land mobile licensees. Establishing the regulatory
framework is required before FCC can license land mobile
operators on the band.

This proposal does not affect the ARRL or the Department of
Defense filing to the US Court of Appeals for the DC Circuit to
review FCC's reallocation decision in PR Docket 87 14.

=====

QST DE W1AW
ARRL Bulletin 89 ARLB089
From ARRL Headquarters
Newington CT December 5, 1989
To all radio amateurs

ARRL HQ reminds us amateurs that unattended HF packet operation
is presently prohibited by Part 97 rules, except for those
stations specifically granted written Special Temporary
Authorization on specific portions of four HF bands. No

unattended STA operation is allowed on ten meters. Stations
without packet STA authorization must adhere to normal attended

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control operator requirements.

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I'm keeping a database of all stolen or "misplaced" amateur radio gear at this qth. All information will be compiled and published at minimum on a monthly basis but will be published more frequently as new items are added to the list. This way you can carry the list with you to ham and regular flea markets to check and see if it is on the "Hot List" If you would like to participate please send the following information:

- * Manufacturer
- * Model Number
- * Serial Number
- * Where purchased
- * Where stolen
- * Details of rip-off (forced entry, home, damage, etc)
- * Date reported stolen
- * Date of report filed to local Police Department
- * Any special marking or modifications on or to equipment
- * Your call, first and last name
- * Your daytime and nighttime telephone numbers
- * Your home qth (city, state, zip)
- * Any other info useful in the recovery of the goods.
- * Date recovered (if filed here)

Please send all information to:

| | | |
|-----------------|----|------------------------|
| Tim Smith | | PO Box 1084 |
| N1BTQ @ KQ1K.MA | or | c/o The Hot List |
| IP 44.56.0.116 | | Mattapoisett, MA 02739 |

***** W3INK HAM RADIO BBS LIST ***** 12/01/89 *****

| | |
|---------------------------|-------------------------------|
| WB2TIX RADIO BBS | 201-271-4517 NJ |
| THE CRYSTAL MOUNTAIN BBS | 203-228-1708 CT |
| DAVE'S CAVE | 203-366-1234 CT (WA1FCN) |
| AMATEUR WORLD | 213-377-0450 CA (N6OQU) |
| DATALINK BBS | 214-394-7438 TX (N5ITU) |
| HAM-NET | 215-233-4313 PA (NEFAD/W3KBM) |
| 3 WINKS BBS | 301-670-9621 MD (W3INK) |
| | 301-590-9629 MD (W3INK) |
| AROUND AND ABOUT | 301-621-9669 MD (WA3TKW) |
| THUNDER BAY TRADING POST | 301-831-9012 MD (WA3ZLB) |
| MEDICAL SOFTWARE EXCHANGE | 305-325-8709 FL |
| SAMSON BBS | 312-394-0071 IL (KB9DIP) |
| THE ELK GROVE REPEATER | 312-529-1586 IL |
| COPE OF CHICAGO | 312-790-0187 IL (KB9X) |
| GENESIS II | 313-291-2520 MI (WB8ZPN) |
| BOATMEN'S BANCSHARES BBS | 314-436-0730 MO (KE0K0) |

| | | |
|----------------------------|--------------|-------------|
| AMSAT BBS | 314-447-3003 | MO |
| SOUTHSIDE BBS | 317-882-9330 | IN (KB9BVN) |
| ADVANCED MICRODATA BBS | 317-898-8411 | IN (N9EQU) |
| TELECOM CENTRAL | 401-521-2931 | RI |
| SARA BBS | 403-240-2053 | ALBERTA, CA |
| ALTA PACKET INFO NET | 403-464-5069 | ALBERTA, CA |
| HAMS BBS | 404-363-1640 | GA (WA4CBT) |
| LOCKHEED ARC BBS | 404-949-0687 | GA |
| PCLOGIC WILDCAT BBS | 407-338-8486 | FL (W4NVC) |
| THE HOUSE OF ILL COMPUTE | 408-733-3734 | CA |
| PD SOFTWARE EXCHANGE | 408-745-0880 | CA |
| MACSCIENCE BBS | 408-866-4933 | CA |
| RAD BOARD | 412-573-0537 | PA |
| MILWAUKEE HEATH USERS GRP | 414-548-9866 | WI (KA9TGN) |
| BBS-JC | 415-961-7250 | CA (K6LLK) |
| NO-NAME RBBS | 415-481-0252 | CA (N6MON) |
| QRV | 419-885-7043 | OH |
| CASPER'S PLACE | 503-239-4960 | OR |
| AUTO-BBS | 503-255-1432 | OR (N7LBP) |
| THE FAMILY BBS | 503-655-6198 | OR |
| THE NORTH PORTLAND HARBOUR | 503-283-2940 | OR |
| THE OAK GROVE UNDERGROUND | 503-659-2642 | OR |
| HELPMET OF BATON ROUGE | 504-273-3116 | LA (W5KGG) |
| THE CUL-DE-SAC BBS | 508-429-8385 | MA (WA1YDL) |
| WAYSTAR BBS | 508-481-7147 | MA |
| THE ANTENNA FARM BBS | 512-444-1052 | TX |
| THE ELECTRONIC AVENUE | 512-359-1748 | TX (KA5THB) |
| THE NEUTRAL ZONE | 513-253-2017 | OH (NU8H) |
| KIC-BBS | 513-762-1115 | OH (KA8AWY) |
| PME-FIDO BBS | 513-777-1234 | OH (WB8BFW) |
| MELNIBONEAN MANOR | 513-851-6454 | OH |
| AMSAT BBS | 515-961-3325 | IO (W0RPK) |
| NEIGHBORHOOD NET | 602-495-1797 | AZ (KB7DJE) |
| THE LEGAL BEAGLE | 603-883-4466 | NH (K1TCD) |
| THE GRAPEVINE BBS | 604-764-4672 | KELOWNCE BC |
| PINELANDS RBBS | 609-859-1910 | NJ (W2X0) |

| | | |
|--------------------|--------------|-------------|
| DIGITAL NEWSLETTER | 612-HAM-0000 | MN (K0TG) |
| HAM BBS | 614-457-4227 | OH (N8EMR) |
| TOM'S BBS | 617-471-0542 | MA (KA1TOX) |
| THE GARDEN SPOT | 617-545-6239 | MA (NS1N) |
| NIGHT OWL BBS | 619-279-3921 | CA (WB6BDY) |
| THE MIDNITE RIDER | 703-591-5744 | VA |
| KC30L BBS | 703-689-7156 | VA (KC30L) |

| | | |
|---------------------------|--------------|-------------|
| AMRAD BBS | 703-734-1387 | VA |
| DAS SPITZEN SPARKEN BOARD | 703-791-6198 | VA (WD4AZG) |
| PTSE | 713-480-1840 | TX |
| STORMY WEATHER II | 713-644-4345 | TX |
| ACOM II | 713-879-1448 | TX |
| PCEVE | 713-955-7564 | TX |
| F.O.G. | 714-638-2298 | CA (N6GIS) |
| THE PUBLIC SERVICE BBS | 717-763-8210 | PA (N3FUD) |
| THE FLAMETHROWER | 804-730-1291 | VA |
| PAC-COMM, INC. BBS | 813-874-3078 | FL |
| KAYCEE-PEEECE BBS | 816-833-3427 | MI |
| TOWER OF BABBLE | 817-281-0612 | TX |
| TEXAS CONNECTION | 817-540-1835 | TX |
| CSC CONSULTING BBS | 818-998-0319 | CA (K6IYK) |
| THE HOT MUDDY DUCK BBS | 904-651-8684 | FL (N4HMD) |
| HAMNET BBS | 915-653-9077 | TX (N5JZZ) |
| HAM'S & FRIENDS | 916-920-1288 | CA (WA6AXZ) |
| AMATEUR RADIO QUICKBBS | 916-366-5531 | CA (W6IDS) |
| CMOS | 918-241-2667 | OK |
| FIRST | 918-250-8495 | OK (WB5RWS) |

***** PLEASE PROVIDE SUGGESTIONS AND CHANGES TO ***** THE 3
 WINKs BBS, 301-670-9621, NODE 1:109/418 ***** IF ANYONE IS
 MISSED, MY APPOLOGIES. LET ME KNOW AND I'LL ADD IT / STAN /
 W3INK @ W3INK.

Heatherington Modem Info

I guess that it's about time I repeat my offer for Heatherington Modem Info. I am handling information requests off-line, and have replied to Ben. I would be happy to hear from anyone that wants information on the Heatherington 56K modem via E-mail or regular U.S. Mail. Information requests will be promptly handled. I'm willing to mail out technical reprints, flyers, etc. Please include your U.S. mail address in your message. Even though the kits are a non-profit club project for us (GRAPES), I don't want to eat up net-bandwidth with a lot of postings. Besides, there's drawings, etc, as Phil pointed out.

GRAPES

P.O. Box 871

Alpharetta, Ga 30239-0871

73's

Doug (GRAPES 56K Modem Committee)

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A R T I C L E S

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RUSSIAN PHRASES FOR AMATEUR RADIO: UPDATE

This new 20-page digest compiled by W6HJK helps amateurs better communicate with their Soviet colleagues. A 90-minute audio cassette has been added to help with pronunciation. You need not be an expert in Russian, only interested in trying.

The book provides (1) English words and phrases for QSOs, accompanied by (2) Russian translation and (3) English transliteration, to assist you in pronouncing the Russian.

The guide follows the natural sequence of a QSO. Additional sections are on the Russian alphabet, phonetics, CW characters, numerals, and given names. Suggestions are made for addressing mail to the Soviet Union.

The author undertook this project out of a personal interest in improving the quality of his QSOs with Soviet hams and to enhance USA-USSR relations.

The original guide was given away, with the author asking minimal donations to cover the costs. Now that several thousand have been distributed, the cost is known and the following donations are requested. A nominal cost of \$5 (\$7 international) for the booklet, \$6 (\$8 international) for the audio cassette, are requested to Beyond War Foundation, who financed the reproduction.

Requests should be sent to:

RUSSIAN PHRASES FOR AMATEUR RADIO
Len Traubman, W6HJK
1448 Cedarwood Drive
San Mateo, California 94403, USA

Relayed by Tad, KT7H @ N7HFZ.WA.USA.NA

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ARRL Letter Vol 8 No. 24 (excerpt)

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| Relayed from packet radio via                               |
| N8EMR's Ham BBS, 614-457-4227 (1200/2400/19.2 telebit,8N1) |
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ARRL LETTER - Dec. 1, 1989 - Volume 8 Number 24 - Pt. 1 of 3

CONGRESS AGREES: NO FEES FOR AMATEUR LICENSES!

The joint House-Senate Conference Committee, reviewing both versions of the Omnibus Budget Reconciliation Act of 1989, has approved deletion of the amateur license fees from the legislation.

In its report released on November 21, the Conference Committee stated: "Both the House bill and the Senate bill include fees on licensees in the amateur radio service. The Conference Report

strikes all of the fees for amateur radio licensees. The Conferees recognize that amateur licensees do not operate for profit and play an important public safety role in times of disaster or emergency."

In the early morning hours of November 22, both Houses of Congress adopted the Conference version of the bill sending it to President Bush for signature.

In the current budgetary environment, avoiding fees altogether is an enormous accomplishment. ARRL congratulates all who played an active role in writing to their Senators and Representatives helping in this effort. Look for an upcoming QST article that will detail how amateurs won this important battle.

SIX METERS IS HOT!

November was the most exciting month in many years for 6-meter operators. From the East Coast, the band was open to Europe and Africa most mornings, and West Coast ops regularly worked into Japan and the Pacific. Stations in the Midwest have been able to work into Japan and Europe on many days as well. In addition, there have been spectacular transcontinental openings most afternoons. Signal strengths are generally good--often S9 or above for better-equipped stations--so anyone with a 3- or 10- watt radio and dipole can join in the fun. Six meters really heated up on Sunday, November 26: A few West Coast stations reported working into Europe, and Japanese stations were worked as far east as northern New England. Operators in the Midwest report that the band was packed with JA stations up to 50.400 MHz for hours. Conditions should be good at least through December and perhaps into January. If you've ever thought about getting on 6 meters, now's the time!

FCC ISSUED CALL SIGN UPDATE

The following is a list of most recently issued FCC call signs (November 1).

| DIST | GRP"A" | GRP"B" | GRP"C" | GRP"D" |
|------|--------|----------|----------|--------|
| | Extra | Advanced | Tech/Gen | Novice |
| 0 | WX0Y | KF0GC | N0LFA | KB0FJN |

| | | | | |
|--------|-------|-------|-------|--------|
| 1 | NZ1P | KC1QW | N1HBP | KA1UQD |
| 2 | WU2H | KE2QE | N2KAM | KB2ISS |
| 3 | NX3G | KD3PV | N3HP0 | KA3VHS |
| 4 | AB4RM | KM4ZZ | N4XHB | KC4MZT |
| 5 | AA5OQ | KG5ZR | N5PNP | KB5KXU |
| 6 | AA6SA | KK6BZ | N6WUU | KC6GQ0 |
| 7 | AA7CF | KF7XY | N7NTQ | KB7IWN |
| 8 | WX8A | KF8CE | N8LMP | KB8IIT |
| 9 | WM9F | KE9ST | N9JAI | KB9DNF |
| Guam | KH2K | AH2CF | KH2EG | WH2AMH |
| Hawaii | *** | AH6KB | NH6VC | WH6CFU |
| Alaska | *** | AL7LP | NL7SV | WL7BVU |
| USVI | NP2F | KP2BR | NP2DK | WP2AGZ |
| P.R. | *** | KP4QJ | WP4WZ | WP4IPE |

*** indicates that all 2 x 1 call signs have been assigned in those areas. The N-prefixed Group C (1X3) call# signs blocks for the fourth and sixth call districts have nearly all been assigned. After N4ZZZ and N6ZZZ have been issued, FCC will begin assigning calls from the Group D (2X3) call sign block.

1989 BOY SCOUT JAMBOREE A SUCCESS

Ray Moyer, WD8JKV, Jamboree Coordinator of the National Office of the Boy Scouts of America, recently sent the following letter to ARRL and to others who had supported the Amateur Radio display at the National Scout Jamboree, held August 2-8, 1989, at Fort A.P. Hill, Virginia:

"On behalf of the K2BSA radio staff and the Boy Scouts of America, I would like to thank you for the use of your equipment at the 1989 National Boy Scout Jamboree.

"..K2BSA was located in a 20 by 40 foot tent in a dusty, hot area... We were able to work 157 countries, our new record, and all 50 states. Over 5000 contacts were logged and several thousand messages were sent via all amateur modes. We had countless messages coming into the Jamboree site also.

"One of the most exciting things at the Jamboree was that Amateur Radio was demonstrated to thousands of youth and adult scouters... I know of very few events where over 30,000 non-amateurs could have the opportunity to enjoy that type of equipment. Our staff worked very hard demonstrating Amateur Radio to our visitors. We had a continuous stream of visitors from sun up until late evening. Once the Jamboree was asleep the staff continued to operate.

"...This is to say thank you for your trust and belief in what we did at the Jamboree. I can say now that our goals and hopes did come true."

MICROSAT LAUNCH DATE ADVANCES

Arianespace officials have informed AMSAT-NA and the University of Surrey that the launch date of the MICROSATs and the UOSAT D/E satellites has been advanced. The launch date is now planned for January 9, 1990. This change in the launch date is the direct result of the postponement of a previous mission.

Launch preparations will begin on November 27, when the payload integration teams from AMSAT and the University of Surrey, along with their satellites, arrive in Kourou, French Guyana. All of the payloads should be fully integrated aboard the ARIANE IV rocket by December 23.

OSCAR satellite users should monitor the AMSAT HF/VHF Nets, OSCAR-13 Operations Nets, and watch the AMSAT News Service (ANS) bulletins for any further details concerning the launch of the MICROSATs and UOSAT D & E.

RADIO AMATEUR CALLBOOK SOLD TO BPI COMMUNICATIONS, INC.

On October 27, Herb Nelson, President and Publisher of the Radio Amateur Callbook announced the completion of the sale of all outstanding shares of Radio Amateur Callbook, Inc. to BPI Communications, Inc. BPI Communications, Inc. publishes World Radio TV Handbook, a well known publication for short wave listeners. Glen Heffernan, Vice President and Publisher for BPI says that The Callbook "...is a natural complement to our publication..that will benefit both licensed amateurs and short wave listeners."

The Radio Amateur Callbook, Inc., has published The Callbook, a listing of all radio amateurs world-wide, since 1920. Located in Lake Bluff, Illinois, Radio Amateur Callbook, Inc. is the oldest commercial firm serving the Amateur Radio community.

FCC SEEKS INPUT/ASSISTANCE IN RESOLUTION OF AMATEUR DISPUTE

On October 11, FCC Special Services Division Chief Robert H.

McNamara wrote to a number of individual amateurs seeking information and comments on phone patches, information bulletins and over-the-air telegraphy practice. The letter requested information and insight that could help bring a resolution to "the unfortunate continuing over-the-air dispute that takes place on the amateur 20 meter band..," a dispute ".. which is jeopardizing international goodwill -- a fundamental principle of the rules for the amateur service in the United States.." One recipient of Mr. McNamara's letter was W1AW Trustee John Lindholm, W1XX.

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ARRL's response was submitted on November 15, by Counsel Chris Imlay, N3AKD in behalf of Mr. Lindholm as well as the ARRL. It begins with pertinent background information --

"Your letter correctly characterizes as unfortunate the over-the-air disputes that have arisen concerning certain operating practices that have come to be regarded as controversial. However, the League knows of no particular reason to include 'telegraphy practice' in the category of controversial operating practices. As will be discussed, the code practice transmissions from station W1AW continue to be widely used and appreciated.

"..communications on behalf of third parties has been a part of Amateur Radio from its earliest beginnings in the United States. The very basis for the formation of the League in 1914 was to organize amateurs to relay messages on one another's behalf in order to overcome the limited range of the amateur stations of the day.

"It was not until the 1930's that international limitations were placed on amateur traffic, at the insistence of European governments whose telecommunications monopoly was a source of considerable revenue. It was not until 1972 that the FCC specifically prohibited 'business communications'. The imposition of these restrictions was itself quite controversial because it put amateurs, for the first time, in the position of having to evaluate the content of the messages they were relaying.

"Other background essential to an understanding of the issues raised concerns the concept of interference within the Amateur

Radio Service and the extent to which operators are obliged to avoid interfering with one another. Willful and malicious interference is a violation of the rules, but interference that is merely a byproduct of normal operating is not. In the crowded HF amateur bands, avoiding causing unnecessary interference to others is extremely important to efficient operation; but a tolerance for interference and a willingness to cope with it as a fact of life is equally important."

With this as background, the League addressed Mr. McNamara's questions:

FCC: Is there a channel plan for the analog emission segment of each amateur service HF band?

ARRL: There is no channel plan; nor should there be, except in the very limited case where the operation of unattended stations may be authorized by an administration for good cause shown. The degree to which amateur stations can share the same or adjacent frequencies is dynamic: often, interference can be reduced to an acceptable level by making a slight adjustment in operating frequency. This would not be possible in a channelized scheme.

FCC: What portion of the analog segment of each amateur band is being used by FCC licensed amateurs for domestic and international third party telephony communications? What is the general nature of these communications? How many phone patches are transmitted per day by band? What effect does the transmissions of such communications have on the Amateur Service? Why aren't other communication services being used for such communications?

ARRL: In general, domestic third party telephony communications are a relatively small part of the communications being conducted at any given time. Their effect on other amateur communications is minimal except in the very limited instances where disputes arise as to the "right" of one station or group of stations to use a particular frequency. The League regrets that these disputes arise since no amateur has a mutually exclusive right to operate on a particular frequency. Such disputes could often be avoided if the operators involved were more flexible in their choice of operating frequency. There is

a greater temptation to use Amateur Radio inappropriately for international than for domestic third party communications, but abuses can be addressed adequately through enforcement of existing regulations.

FCC: What portion of the analog segment of each amateur band is being used by FCC licensed amateurs for information bulletin telephony communications? How many amateurs listen to these transmissions? How many bulletins are transmitted per day? What effect do these transmissions have on the amateur service? Why aren't amateur digital systems used exclusively for such communications?

ARRL: Station W1AW has transmitted brief information bulletins using telephony emissions for decades. It has been common practice for other amateur stations to conduct similar operations, usually on a localized basis, and usually as a part of a scheduled net or on some other limited, scheduled basis. Such bulletins are very important to the dissemination of timely and accurate information to radio amateurs. In recent years there has been a trend toward amateurs receiving these bulletins via digital modes: however, not all amateurs have access to digital modes, and the telephony bulletins still serve a useful purpose.

FCC: What portion of the analog segment of each amateur band is being used by FCC licensed amateurs for telegraphy practice communications? In view of the availability of recorded telegraphy training material, why are amateur service frequencies still used for this purpose?

ARRL: W1AW transmits Morse code practice in four one-hour segments on weekdays, and three one-hour segments on weekends. While higher speeds are used in Code Proficiency Qualifying Runs, the W1AW transmissions concentrate on the speeds that are

required to pass the examination elements for FCC amateur licenses. This service is highly valued, and well accepted in the Amateur Radio community. Audio cassette tapes and computer programs are useful tools but audio tapes can be memorized after they are used a few times, giving the user a false sense of accomplishment; computer programs require expensive equipment. Neither method provides experience in copying Morse code under actual on-the-air operating conditions.

FCC: Suggest a statement of practices that you believe should be followed by amateur stations transmitting third party communications, information bulletins, and telegraphy practice.

ARRL: At the urging of FCC staff, the League in the mid- 1970's developed the eleven-point "Phone Patch and Autopatch Guidelines" that appears in The FCC Rule Book (Eighth Edition) at page 13-15. These guidelines have stood the test of time, and are generally accepted as a useful supplement to the Commission's Rules. The League believes that the definition of the term "information bulletin" contained in the Commission's Rules should be strictly applied and enforced. Operators of amateur stations who cannot or do not wish to conform to these strict limitations may more appropriately seek licenses in the Broadcasting Service.

Finally, with regard to telegraphy practice, the only guidelines needed are to ensure that the purpose of the transmissions is to provide telegraphy practice and not to engage in one-way transmissions that otherwise would be illegal:

- The text should not be randomly generated, since such practice material is readily available via other media.
- The text should be taken from a published, readily available source to facilitate checking accuracy of copy.
- The text should relate in some way to Amateur Radio.
- The text should not be sent repeatedly.

Based on the response from ARRL and others, the FCC will consider its next steps in this on-going HF "dispute." Mr. McNamara says that possible alternatives range from FCC rule making that would ban all third party traffic on amateur frequencies to rules that would designate certain frequencies where only third party communications could be conducted.

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=====
| Relayed from packet radio via                               |
| N8EMR's Ham BBS, 614-457-4227 (1200/2400/19.2 telebit,8N1) |
=====
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Volume 6 - Number 6 - December 1, 1989

Published by The American Radio Relay League
225 Main Street, Newington, CT 06111
Stan Horzempa, WA1LOU, Editor

SOUTHWEST OHIO DIGITAL SYMPOSIUM:
PRELIMINARY AGENDA AND SECOND CALL FOR PAPERS

A preliminary agenda and second call for papers has been announced for the 4th Annual Southwest Ohio Digital Symposium to be held on Saturday, January 20, at the Middletown Campus of Miami University in Middletown, Ohio. The preliminary agenda follows (at this time, there is still room for additions to the agenda). The lack of a call sign or name following a topic indicates that the speaker has not been confirmed.

* Packet radio for beginners including hands-on demonstrations (K8NHE and others)

Concurrent with the above, at least one, and possibly two sessions will be held on the following topics:

- o Networking - Current state and next steps - NK8T
- o SYSOPs' discussion group
- o MicroSat and other topics of interest to AMSAT
- o Alternatives to TNCs for handling node functions - AD8I
- o Super-fast networking (for example, N3EUA's proposal of 1-Mbit/s networking on 10 GHz)
- o MSYS PBBS software (WA8BXN)
- o AMTOR and APLink
- o Emergency uses of packet radio (W8MDK)
- o TCP/IP and applications for Amateur Radio (N8EMR)
- o An FM radio designed for digital communications (Karl R. Medcalf, WK5M, and Phil Anderson, W0XI, of Kantronics)
- o Experiences with the TAPR packetRADIO
- o 220-MHz band-planning
- o Ohio Packet Council quarterly meeting (NC8Q)

The symposium is a cooperative effort hosted by the Engineering Technology Department of Miami University, the Middletown DIAL Twisters (Dial Radio Club), the Ohio Packet Council and the Cincinnati Buckeye Netters. Kantronics will demonstrate their 9600-bit/s digital radio and other new hardware and will sponsor a packet-radio seminar on January 21 in coordination with the Symposium.

For further information contact:

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Hank Greeb, N8XX @ KC8TW.OH.USA.NA
6580 Dry Ridge Rd
Cincinnati, OH 45252

TERMINAL EMULATOR AVAILABLE ON CARTRIDGE FOR COMMODORE COMPUTERS

DIGICART>64, a cartridge version of DIGICOM>64, the TNC emulator program for the Commodore 64 and 128 computers, is now available. The cartridge features auto-booting, making it ideal for unattended operation; should there be a power interruption, the program (and parameters) will reboot automatically. The cartridge is also ideal for Commodore users without a disk drive.

A unique feature of this cartridge is the ability to rewrite and save parameters without the need for disk access. This is achieved by using a 2864 EEPROM for parameter and text storage. No battery backup is needed to maintain data storage.

Each DIGICART>64 cartridge includes a 25-page instruction book. Note that the DIGICOM>64 modem (see QST, April 1989, page 76) is required for DIGICART>64 operation.

More information on DIGICART>64 is available from:

Barry N. Kutner, W2UP
614-B Palmer Ln
Yardley, PA 19067

MICROSAT/UOSAT LAUNCH DATE PULLED IN

Arianespace officials have informed AMSAT and University of

Surrey that the launch date of the MicroSats and UoSAT D and E satellites has been pulled in by ten days and is now planned for January 9. The date change is the result of the postponement of another mission, designated by Arianespace as V35A, that was planned to lift-off on December 13.

Apparently, there are technical problems with the primary payload of the V35A mission and it will not be ready for launch on schedule, so, Arianespace officials decided to use this extra time to prepare for the next flight, known as the V36A mission. They feel that pulling in the MicroSat/UoSAT launch date by ten days is feasible because the MicroSats and UoSATs, along with the primary payload, SPOT-2, are ready to fly. The launch campaign began on November 27 with the payload integration teams from AMSAT and the University of Surrey, along with their satellites, arriving in Kourou, French Guyana. By December 20, all of the payloads will be fully integrated aboard the ARIANE IV rocket and the teams will then return home on December 23. After a short Christmas break, the final AMSAT/UoSAT teams will travel back to Kourou and stay there to monitor their respective satellites until the launch.

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The UoSATs have completed RF tests in the screen room at University of Surrey and have been exposed to low temperature tests in the clean room "freezer" at -20 degrees C. Marc Fouquet, designer of the CCD camera on-board UoSAT-E, has been taking "bench-mark" images for comparison with orbital images. Totally "black" images have been collected to provide data for image processing using the Transputer Data Processing Experiment - also on UoSAT-E in collaboration with the European Space Agency. Additional solar simulation tests had to be canceled due to the advance in departure date and the spacecraft are now undergoing final cleaning and assembly in the clean room.

Uplink and downlink calibrations in an RF anechoic chamber are planned providing that the chamber can be made available within the very tight schedule. Numerous visitors from several countries, as well as the UK, have recently come to the University to view the new UoSAT spacecraft.

From AMSAT News Service and UoSAT Mission Control Centre

AMSAT-NA SPACE SYMPOSIUM

AMSAT held its 1989 Space Symposium and Annual Meeting on November 3-5 at the Meredith Corporation's facilities in Des Moines. This facility provided an excellent meeting place for the hosting organization, the Central Iowa Technical Society. Radio amateurs from around the world traveled to Des Moines to be part of this event.

The Symposium began on Saturday morning with Jan King, W3GEY, Bob McGwier, N4HY, Tom Clark, W3IWI, Jon Bloom, KE3Z, and Harold Price, NK6K, presenting a detailed rundown of the MicroSat program. NK6K gave an interesting review of digital store-and-forward software, which he, N4HY, and Jeff Ward, G0/K8KA, are developing. Following the MicroSat discussion, Stan Sjol, W0KP, and Bill Clapp of Weber State College (WSC) summarized the CCD camera experiment and other scientific experiments which will fly aboard the WEBERSAT MicroSat. Also included was a sample high-resolution picture taken with the WSC CCD. Rounding out the morning session was Dick Jansson, WD4FAB, who discussed the Phase IV geostationary satellite design effort. After lunch, Courtney Duncan, N5BF, AMSAT Vice President of Field User Projects, discussed the many exciting activities related to OSCAR-13, for example, Operations Nets, ZRO Tests and the upcoming MicroSat launch. Then Franklin Antonio, N6NKF, presented his satellite tracking program, InstantTrack 1.0. After Franklin, there was series of papers about the exciting scientific missions in which AMSAT and OSCAR satellite users are being invited to support including the Solar Sail, Lunar Polar Orbiter and NASA's Small Expendable-Tether satellite experiments.

Following these papers came Jeff Wallach, N5ITU, Chairman of the Dallas Remote Imaging Group, who presented a paper on high resolution weather satellite image processing. Showing slides

of weather satellite pictures processed on his IBM-AT computer, many of the Symposium attendees were overwhelmed by the pictures that N5ITU's computer produced. Bill Brown, WB8ELK, closed the day with his presentation on ATV experiments with balloons. Bill showed a videotape of his latest high-altitude balloon experiments in which one of his balloons reached an altitude of 133,000 feet! Attendees were awestruck at the sight of seeing the curvature of the earth at that height. Most interesting was the trip back to earth after the balloon burst with impact

impending.

After an "attitude readjustment," the Symposium attendees returned to the Meredith Corporation facilities for the banquet and awards ceremonies. Over 50 awards were presented to AMSAT volunteers in recognition of their service to the AMSAT organization, the MicroSat program and the furtherance of OSCAR satellite program.

From AMSAT News Service

MICROSAT MODEM TEST TAPE AVAILABLE

If you are building one of the TAPR or G3RUH 1200-baud PSK modems for the soon-to-be launched MicroSats, a good way to bench-test your modem is by using a cassette tape which Jack Mathias, W9FMW, is offering. This cassette tests your modems without requiring a "live" signal. Also, you can be sure that the rest of your system is operating correctly before the launch of the MicroSats. To obtain W9FMW Test Tape For TAPR/G3RUH Modems, contact AMSAT-NA headquarters at 301-589-6062.

From AMSAT NA News Service

FULL-FEATURE PC TERMINAL EMULATOR AVAILABLE

RTP+ is a terminal emulator program written for the application layer of a packet-radio station. The program has been a labor of love over the past four years and has evolved into a very sophisticated program. It is an enhancement of RTP, which itself was developed from PTP with the intention of simplifying its user interface, while adding several new features. RTP+ runs on an IBM PC, PCjr, XT, AT or PS/2 with a TAPR-compatible TNC or multimode controller, such as the AEA PK-232, Kantronics KAM or MFJ 1278. RTP+ requires IBM DOS 2.1 or later and works with the monochrome or CGA adapter. A minimum of 256 kbyte of RAM is required. The program is not copyrighted.

RTP+ provides numerous functions and modes for operating packet radio, CW, AMTOR and RTTY. The program is extremely versatile and fully configurable from definition files that the user creates. Functions included in this program are optionally sent connect messages, optional automatic issuance of commands to the TNC when starting and ending RTP+, optional automatic enabling of certain features when starting the program, two or three split- screen modes, a "Net Master" mode for more than two

stations in a packet-radio QSO, optional connect alarm, background and foreground color selection, optional filtering of monitored BELL characters, optional receive and transmit anti-word-wrap (no words will be split across lines) and a quick save capture for both connected and unconnected packets. The program also features an unattended personal mini-PBBS, choice of two cursor types (regular or big block for LCD screens), expanded function key capabilities, support of non-packet-radio modes (CW, AMTOR, RTTY for intelligent terminal units or multimode controllers), an optional personalized prompt on the center strip of the split-screen, configurable NTS traffic handling function and built-in traffic editor, selectable DCD detection for both TNC 1s and 2s, configurable scroll-back buffer and optional installation of new SET (TNC parameters) file from within a DEF file. Function key editing from within RTP+ is supported and all definition file commands can be edited from within the program. Other features include user-configurable tags for function keys, optional printer capture, on-line help, optional saving of scroll-back buffer to a capture file, receive and send scroll-back buffers, support for escape to DOS and return, optional communications buffer purge, performance of predefined DOS functions or commands, automatic sending of NTS traffic to a PBBS, uploading and downloading in ASCII, XPACKET, XMODEM and binary, recalling of previous sent lines, type-ahead buffering, a prompting utility to create DEF files and full dual TNC support via two COM ports. Also, optionally combined TNC commands in a file can be sent to the TNC.

More information on RTP+ is available from:

N4PY Software
Rt 3 Box 260
Franklinton, NC 27525

NEW AMSAT LANDLINE BBS

The new AMSAT landline BBS is now part of the Dallas Remote Imaging Group's BBS at 214-394-7438.

From AMSAT News Service

AMTOR-PACKET RADIO LINKED STATIONS

The following is a list of AMTOR packet radio linked (APLink)

Amateur Radio stations as of October 29, as compiled by Craig McCartney, WA8DRZ. Mark carrier frequency or frequencies are listed.

| | | | |
|-----------|---------|---------|-------------------------|
| Call Sign | SELCAL | SYSOP | Location |
| 9K2DZ | NKDZ | Abdul | Safit, Kuwait |
| 14072.0 | | | |
| AH6D | AAHD | Paul | Aiea, Hawaii |
| 14071.5 | 14073.5 | 14075.0 | 14077.5 (1630-0730Z) |
| DU9BC | DUBC | Fred | Davao City, Philippines |

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14072.0 (24 hours), 7023 (mornings)

| | | | |
|----------|---|---------|--|
| FE1JPY | FJPY | Henry | Angers, France |
| 14070.8 | (even weeks 1300-2100Z, odd weeks 2000-0100Z) | | |
| G4SCA | GSCA | John | Plymouth, England |
| 7035 | 7036 | 14070 | 14070.5 14071.5 14072.5 14081 (1800-2200Z) |
| HL9TG | HLTG | Gary | Camp Humphreys, Korea |
| 14073.5 | | | |
| K2PEQ | KPEQ | Bill | Fort Lauderdale, Florida |
| 14079 | | | |
| K7BUC | KBUC | Del | Phoenix, Arizona |
| 7047.5 | 7071 | 10140 | 14071.5 14073.5 14074 14075 |
| KB1PJ/8 | KBPJ | David | Shaker Heights, Ohio |
| 14070.5 | | | |
| KK4CQ | KKCQ | Harvey | Pensacola, Florida |
| 14071.5 | | | |
| KX6HE | KXHE | Tim | Kwajalein, Marshall Islands |
| 14069.5 | 140070.5 | 14071.5 | 14073.5 |
| 14074.5 | 14075.5 | 14077 | 14079 14081 (0800-0130Z) |
| N0IA/7 | NNIA | Bud | Las Vegas, Nevada |
| 7047.5 | 7072.5 | 10140.5 | 14068.4 14071.5 14072.5 21071.5 28075 |
| | (1300-2100Z) | | |
| 3625 | 3627 | 7047.5 | 7071 7072.5 10140 10140.5 14068.5 14072.5 |
| | (2100-1300Z) | | |
| ND6D/MM2 | NNND | Jerry | M/V Sea-Land Anchorage |
| 14069 | (when vessel at sea) | | |
| PJ2MI | PJMI | Jose | Curacao, Neth. Antilles |
| 14077.8 | (1000-1200 and 2200-0100Z) | | |
| TG9VT | TGVT | John | Guatemala City, Guatemala |
| 14074 | (0500-1200Z) | | |
| VE8DX | VIDX | Bob | Pond Inlet, NWT, Canada |
| 7073.5 | 7077 | 14071.5 | 14072.5 14073.5 14077 |
| 21071.5 | 21075 | 21079.8 | 28071.5 28075 28080 |
| VK2AGE | VAGE | Gordon | Goonellabah, NSW, Australia |

7045 14075 14077 21076
 (0200-0700Z beamed NA, 0700-1030 Asia, 1030-1200 NA,
 1200-0000 EU)

| | | | |
|----------|--|---------|-------------------------------|
| VK2EHQ | VEHQ | Peter | Kulnira, NSW, Australia |
| 14070.5 | | | |
| VK6YM | VKYM | Herve | Beckenham, Australia |
| 14081 | (1400-2300Z beamed Europe, 2300-1000Z beamed Pacific) | | |
| W2TKU | WTKU | Al | Sarasota, Florida |
| 14071.5 | | | |
| WA1URA/9 | WURA | Frank | Grabill, Indiana |
| 7075.5 | 10142.5 | 14070.5 | 14071.5 14073.5 14075.5 21076 |
| WA8DRZ/6 | WDRZ | Craig | Redwood City, California |
| 10140.5 | 10141.5 | 14068.5 | 14069.5 14070.5 |
| 14071.5 | 14073.5 | 14074.5 | 14075.5 |
| WA8GUG | WGUG | Ross | Chillicothe, Ohio |
| 14078.5 | | | |
| WB7QWG/9 | WQWG | Bob | Indianapolis, Indiana |
| 7072.5 | 7075.5 | 14071.5 | 14073.5 21071.5 28075.5 |
| WB8APD | WAPD | Dave | Willoughby, Ohio |
| 14071.5 | | | |
| ZF1GC | ZFGC | Frank | Bodden Town, Grand Cayman |

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| | | | |
|---------|---------|---------|-----------------------|
| 14070 | 14070.5 | 14071.5 | |
| ZL1ACO | ZACO | Neill | Pukekohe, New Zealand |
| 14072.5 | | | |

Please send any comments or changes to WA8DRZ.

GATEWAY CONTRIBUTIONS

Submissions for publication in Gateway are welcome. You may submit material via the US mail to:

Gateway
 Stan Horzempa, WA1LOU
 75 Kreger Drive
 Wolcott, CT 06716-2702

or electronically, via CompuServe to user ID 70645,247 or via Internet to 70645.247@compuserve.com. Via telephone, your editor can be reached on evenings and weekends at 203-879-1348 and he can switch a modem on line to receive text at 300, 1200 or 2400 bit/s. (Personal messages may be sent to your Gateway

editor via packet radio to WA1LOU @ N1DCS or IP address
44.88.0.14.)

The deadline for each issue of Gateway is the Saturday preceding
the issue date (which is typically a Friday).

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provided that the original contributor is credited and Gateway
is identified as the source.

INTERNATIONAL AMATEUR RADIO NETWORK NEWSLETTER SEPTEMBER - OCTOBER - NOVEMBER - 1989

I A R N TRIP TO SOVIET UNION IS CANCELED

The trip of our five member I A R N delegation to the Soviet
Union was canceled at the last minute due to network activation
on 14.275 MHz. for hurricane Hugo. We hope to reschedule the

trip some time next year and I A R N Soviet Director, Victor Goncharsky, UB5WE, is planning to make another attempt to attend the Dayton Hamvention this year along with I A R N Berlin Chapter President Bob Bruce, DJ0XC. Meanwhile, the requested I A R N repeater in Yerevan, capitol of Soviet Armenia, is scheduled for installation in December, 1989, or January, 1990. This repeater, financed by I A R N Berlin and I A R N U.S.A., is designed and built by George Caswell, K1MON.

THE FIRST LADY WRITES TO I A R N DELEGATE BONNIE BAXTER The First Lady wrote to the following letter to K1MAN XYL Bonnie, which speaks for itself:

THE WHITE HOUSE
August 16, 1989

Dear Mrs. Baxter,

We wish you and your husband well on your trip to the Soviet Union.

With regard to any advice or suggestions I might have for you in terms of international good will, it sounds as if you and your husband are already experts.

I will only say, have a good trip and I wish you well.

Warmly,
Barbara Bush (Signed)

Mrs. Glenn Baxter
R.R. 1, Box 776 - Long Point
Belgrade Lakes, ME 04918

HURRICANE HUGO

We handled traffic for nineteen different islands and thus nineteen disasters rolled into one. I A R N responded with eight jump team operators deployed to Puerto Rico, St. Thomas, St. Croix, and Culebra. Two jump team operators are still very busy on St. Croix and St. Thomas. Many new modes of communications have been used for the first time in a full blown emergency including FAX, computer BBS, Packet, Telex, AMTOR, MCI Mail, along with the usual SSB voice and landline voice links.

The new combination made use of over two dozen volunteers at I A R N Headquarters and three Tandy IBM compatible computers. We now have a new Q & A data base of all our St. Croix traffic which I A R N St. Croix Director and Red Cross Communications Officer Dave Moritz, WB8ZQN, is using to good advantage. I A R N sent eight synthesized CB hand held radios, several Cushcraft antennas, and one one MFJ TNC to the Caribbean for long term service with other gear going and coming with individual jump team operators.

The big technological star has been AMTOR, which has supplied I A R N with its long haul links for large volumes of traffic. All traffic gathered by I A R N West Coast, Frank Collins, N6TAF, Director, was transfered by computer BBS.

We expect to be working on Hugo related work through the first of the year. The details of our Hugo work have been covered on two I A R N broadcasts. For your souvenir copy, send one blank C-90 cassette along with forty-five cents return postage to: I A R N , Belgrade Lakes, Maine 04918 U.S.A.

SAN FRANCISCO EARTHQUAKE

I A R N activated quickly after the earthquake in San Francisco. The status reports came quickly along with outgoing traffic which ran throughout the night and around the clock. K1MAN secured at midnight and by 4 A.M. WA9F was managing 14.275 MHz. quite efficiently with traffic flowing into and out of California very quickly. At about 9 A.M., the morning after the quake, we opened a second frequency on 14.270 MHz. There was a fair amount of international traffic, most notably from the Soviet Union...for the first time in history. The Soviet traffic was turned around very quickly and large amounts of traffic were shipped to West Coast I A R N, N6TAF, via computer BBS. Sixty pages of this, courtesy Bill Pastarnak, WA6ITF. Brian Breton, a new ham on the way, volunteered full time at I A R N headquarters, and within several days, the California communications crisis was over and we were back to full time work on hurricane Hugo with most work related to St. Croix and our new Q and A data base requested by St. Croix Director WB8ZQN.

I A R N SPONSORS FOURTH CHILD'S HEART SURGERY

Taina Bonisue Torres, age six, became the fourth child to

receive heart surgery sponsored by the International Amateur Radio Network. The much needed operation at the Debroah Heart Center in Browns Mills, N.J. was performed with complete success on September 4, 1989. Taina is our first girl to benefit from the heart surgery program which was started during our activation for the San Salvador earthquake in 1986. I A R N sent nineteen doctors, nurses and radio operators to El Salvador to help in that disaster, and that is when we ran across little Carlos Lemus, who was dying from a hole between the small

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chambers of his tiny heart. He is fine now and getting to be a big boy, in spite of the fighting and trouble in El Salvador these days.

I A R N RECEIVES A GRANT FROM CATHOLIC RELIEF SERVICES

Last year, Father Mike Mullen, WA2KUX, arranged for I A R N to receive a grant of \$5,000 to be used for setting up needed digital communications links with Soviet Armenia. This equipment is in place, including new computer equipment at I A R N Headquarters, and we have regular AMTOR contact with our POISK search office in Yerevan. This same new equipment was used extensively during the Hugo and San Francisco emergency activations. Father Mike has now arranged for a second grant to help pay I A R N telephone expenses as well as other net expenses regarding hurricane Hugo. Part of this second \$4,000 grant went for a badly needed third computer to enter traffic into digital form directly off the air. Now traffic from various sources such as FAX, BBS, AMTOR, and VHF packet are quickly sent to the affected area by AMTOR and followed with the same traffic in the new Q and A data base for infinite flexibility. Thanks to CRF for this needed money which will be working hard for years to come. Thanks also to MFJ who donated a TNC badly needed on St. Thomas.

I A R N SSB AND DIGITAL EMERGENCY TRAFFIC PLAN

During a world wide communications emergency, I A R N uses SSB on 14.275 MHz. as a primary control and logistics frequency, with 14.265 MHz. for voice bulletins, 14.075 MHz. for AMTOR bulletins, and 14.285 MHz. as a secondary SSB frequency for health and welfare traffic. I A R N operates on 14.275 MHz. in five modes:

- | | |
|--------|---|
| Mode 1 | Full activation, continuous traffic, continuous NCS duty, I A R N broadcast on 14.265, 3.975, and 28.475 MHz. |
| Mode 2 | Semi activation, intermittent traffic, continuous NCS duty, I A R N broadcast on 14.265, 3.975, and 28,475 MHz. |
| Mode 3 | Full alert, continuous monitoring, I A R N broadcast on 14.275, 3.975, and 28.475 MHz. |
| Mode 4 | Semi alert, general monitoring, I A R N broadcast on 14.275, 3.975 and 28.475 MHz. |
| Mode 5 | No organized monitoring, I A R N broadcast on 14.275, 3.975, and 28.478 MHz. |

DIGITAL MODES

I A R N uses several digital modes and digital networks to help support traffic handling. These include:

1. Traffic transfer world wide via FAX, especially where third party restrictions are getting in the way.

2. Telephone computer file transfer.
3. Telephone computer BBS.
4. HF AMTOR file transfer, especially for long haul links between traffic nodes such as U.K. to U.S., etc.
5. HF AMTOR BBS.
6. Normal packet networks.

TRAFFIC NODES AND ORGANIZATION

Where appropriate, certain stations will be designated as a Node Manager by the Network Manager or Assistant Network Manager. The Node Manager is assigned a block of alphanumeric traffic prefix designators which he assigns to individual stations, including himself, as official I A R N sanctioned nodes. An I A R N sanctioned node must meet the following requirements:

1. The sanctioned node must assign his alphanumeric prefix and a sequential number to each piece of traffic handled.

2. The sanctioned node must accept responsibility for making immediate collect telephone calls to originators for each traffic response coming back from the affected area.

3. The sanctioned node must accept responsibility for keeping up to date on the current status of its outstanding traffic and "killing it" in the event the traffic becomes complete through some other communications channel.

Certain Node Managers will be assigned by the Network Manager or Assistant Network Manager to compile and keep up to date a master reply list of all traffic in the network. This redundant coverage will cover for all traffic in case a Node Manager or Node Station must drop out from participation. We now have two IBM compatible programs available to keep track of traffic. One, available on four 3 1/2 " disks, requires a hard drive and the other, available on three 5 1/4 " disks, does not. If you want to examine either, send us blank disks along with return postage: I A R N, Belgrade Lakes, Maine 04918 USA.

How does the EBS system work?

The EBS system works as a relay system of AM & FM broadcast stations. Local areas (called Operational Areas) have what are called Common Program Control Stations (CPCS-1). All stations in this operational area have there EBS receiver monitoring this station. Operational area activation is thru the CPCS-1 from the National Weather service, Local Civil Defense or Public Safety agencies. State level activation is provided thru a Originating Primary Relay Station (Usually a FM station located

near the state capital). The CPCS-1 in each Operational Area monitor this station. (When the Originating Primary Relay Station doesn't cover the entire state, Primary relay stations will be added.) State level activation may come from the Governor, NWS, State CD, or Public Safety agency. National Activation is from the President thru NORAD or FEMA and use the existing radio, television & teletype networks. Many times broadcast RPU freqs are used to link the NWS, Public safety & CD agencies to the CPCS-1's & OPRS's. Amateur Radio facilities are included in most local EBS plans as alternate communication facilities for use in providing emergency program material. Most CPCS-1's & OPRS's have Generators with 14 day fuel supply, Fallout shelters & are EMP protected.

What band, if any, does the EBS receiver use?

The EBS uses a standard (AM or FM) broadcast band receiver.

When did the EBS come into effect?

The Emergency Broadcast System (EBS) was established in 1964 to provide the President of the United States with a expeditious method of communicating with the American public in the event of war, threat of war, or grave national crisis. It replaced the CONELRAD system.

Gary N1EDZ